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Datasheet for S000-51

Streptavidin ATTO 425 Conjugated

Overview

Description:	Streptavidin ATTO 425 Conjugated - S000-51
Item No.:	S000-51
Size:	500 µg
Applications:	Dot Blot, IF, WB

Product Details

Background:	STREPTAVIDIN ATTO 425 is designed for STED microscopy, FRET, immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
Synonyms:	SA, S avidin, streptococcus avidin, streptavidin AT425, ATTO 425, ATTO-TEC 425, STREPTAVIDIN ATTO 425 Conjugated
Conjugate:	ATTO 425
F/P Ratio:	3.5

Target Details

Purity/Specificity:	STREPTAVIDIN ATTO 425 was prepared from chromatographically purified Streptavidin. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Streptavidin. No reaction was observed against anti-Avidin.

Application Details

Tested Applications:	Dot Blot, IF, WB
Application Note:	Streptavidin ATTO 425 has been tested by dot blot, western blot, and immunofluorescence. The emission spectra for this ATTO conjugate matches the principle output wavelengths of most common fluorescence instrumentation.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

FLISA:	>1:20,000
IF:	>1:5,000
WB:	>1:10,000

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	500 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

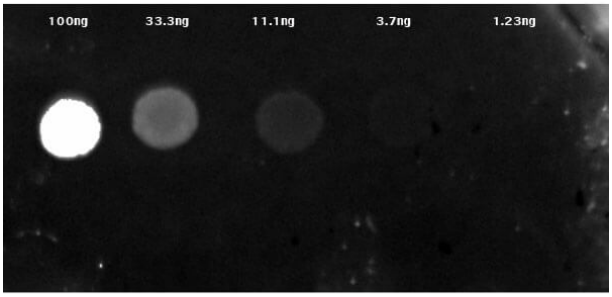
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

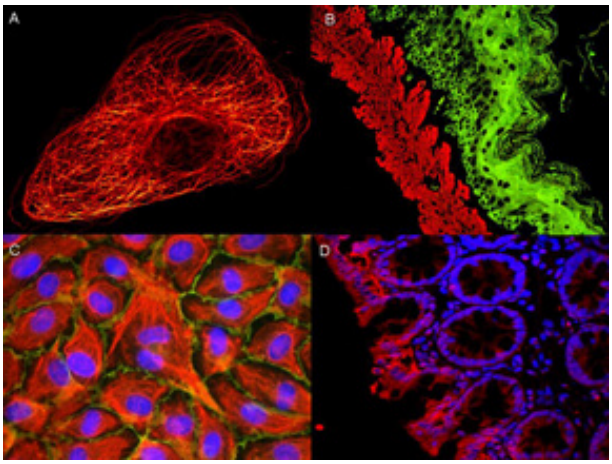
Images



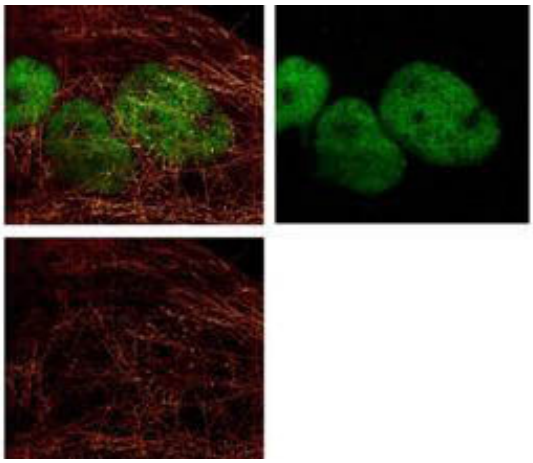
Bottle
Streptavidin ATTO 425 Conjugated



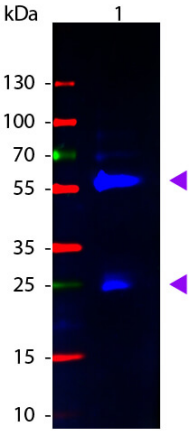
Dot Blot
Dot Blot results of Streptavidin ATTO 425 Conjugate. Dots are Biotin: (1) 100ng, (2) 33.3ng, (3) 11.1ng, (4) 3.70ng, (5) 1.23ng. Primary Antibody: none. Secondary Antibody: Streptavidin ATTO 425 Conjugate at 1µg/mL in MB-070 for 1hr at RT. Imaged with BioRad ChemiDoc, CY2 filter.



Immunofluorescence Microscopy
Atto Dye-Immunofluorescence microscopy ATTO dyes can be used for multicolor immunofluorescent detection with low background and high signal. Examples shown are: A. Tubulin in PtK2- male Rat Kangaroo Kidney Epithelial Cells was detected using ATTO 532 labeled secondary antibody. B. Muscle alpha-actin was stained with a mouse primary antibody and ATTO 488 anti-mouse IgG (green) while Cytokeratin was stained with polyclonal rabbit anti-cytokeratin and ATTO 647N anti-rabbit IgG (red). C. HUVEC (Human umbilical vein endothelial cells were stained with anti- Vimentin-ATTO 532 (green), anti-E-Cadherin-ATTO 655 (red) and DAPI (blue). D. Rat colon sections were stained with Anti-Aquaporin 3-ATTO 594 antibody. Hoechst 33342 (blue) is used as counterstain.



Immunofluorescence Microscopy
ATTO 425 conjugated anti-Mouse IgG was used to demonstrate 2 color STED immunofluorescence microscopy. Methanol fixed A431 cells were blocked with normal goat serum. The cells were then probed with 0.4 µg/mL final concentration of anti-a-tubulin and detected with 0.2 µg/mL ATTO 425 conjugated anti-MOUSE IgG [GOAT] (610-151-121) secondary antibody (colored RED). Also shown in this 2-color STED image is Rockland's Anti-HDAC-1 [RABBIT] (p/n 600-401-879) detected with DyLight™488 conjugated Anti-RABBIT IgG [GOAT] secondary antibody (colored GREEN). Image courtesy of Myriam Gastard, Leica Microsystems, USA.



Western Blot
Western Blot of Atto 425 Conjugated Streptavidin. Lane 1: Biotin conjugated Guinea Pig IgG. Lane 2: None. Load: 50 ng per lane. Primary antibody: None. Secondary antibody: Atto 425 Conjugated Streptavidin at 1:1,1000 for 60 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 28 & 55 kDa, 28 & 55 kDa for Guinea Pig IgG. Other band(s): None.

Disclaimer

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